

[INITIALIZATION FOR HYPER FRAME NUMBER OF SIGNALING RADIO BEARERS]

Abstract of Disclosure

A wireless communication system comprises an integrity key, a mobile unit comprising a first integrity count value, and a UTRAN comprising a second integrity count value. The UTRAN is coupled to the mobile unit for transmitting a control command to the mobile unit. The control command is used for starting an integrity protection process for a radio bearer, with the integrity protection process using the integrity key and the first and second integrity count values for verifying a transmission integrity between the mobile unit and the UTRAN. The mobile unit sends a START value for the radio bearer to the UTRAN. The UTRAN sends the control command to the mobile unit to activate integrity protection along the radio bearer, and sets the x most significant bits of the second integrity count value of the UTRAN equal to the START value last received from the mobile unit for the radio bearer. In response to receiving the control command, the mobile unit sets the x most significant bits of the first integrity count value of the mobile unit equal to the START value last transmitted to the UTRAN.